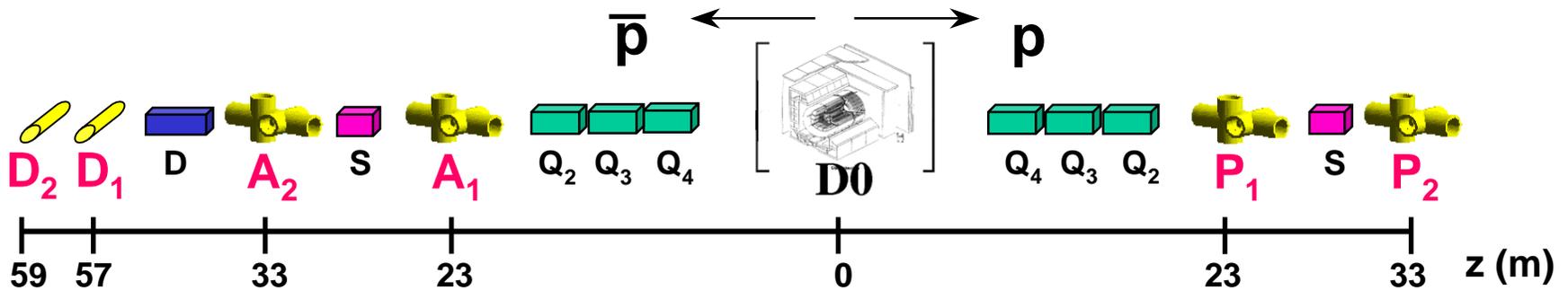


FPD Current Status

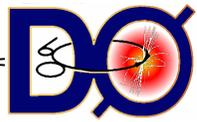


After the June shutdown we are operating with:

- 8 Detectors installed at: D1, D2, A1I, A2I, P1D, P2D, P1U, P2U
- 4 Pseudo-detectors (trigger counter) at: A1U, A1D, P1O, P2O
(U=Up, D=Down, I=In(side the ring) O=Out)

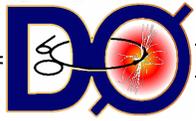
We are currently taking diffractive data in standalone mode:

- Require hits in the Dipole (D1+D2) detectors
- Veto on Luminosity Monitor and Veto Counter on the antiproton side
- Require activity in the LM and VC on the proton side



FPD Progress and Plans

- **Some recent progress:**
 - Multiplexors added to reduce number of rack monitors and enable 18 pot (instead of 10 pot) operation
 - Elastic and Diffractive triggers implemented in the stand-alone DAQ. Data is being taken routinely and analyzed
 - Preliminary analysis of elastic events give compatible results with Monte Carlo
 - Fiber efficiency is close to 100%
 - Better understanding of halo backgrounds
 - Rapidity gap + jet triggers added to DØ global list
- **By the end of 2002:**
 - Expect Elastic + Diffractive dN/dt and ξ -distribution
 - Expect to obtain dN/dt for elastics for $0.6 < t < 1.5$ where **NO** experimental data is available at this energy
 - First Diffractive + jets data should be obtained



FPD/DØ Integration Issues

- **Integration of FPD into DØ is top priority of FPD**
 - Due to location of FPD, Sequencer delays needed to include FPD into readout chain (solutions, including “simple” delay board, near completion)
 - Transition Patch Panel to connect ribbon cables to AFE undergoing final tests and will be installed soon: shapes the signals, discards excess charge and isolates ground
 - We intend to have the dipole spectrometer in the readout chain soon and AFE/DFE for 10 detectors in October (2 D's + 4 A's + 4 P's, requires 3 AFE boards)
 - Need LM TDC boards to include trigger scintillator information
 - FPD Trigger Manager should be programmed soon to include LM, DFE, Veto Counter information and provide FPD AND/OR terms
 - AND/OR terms allow proton+X triggers in DØ global list